IN THE CLAIMS

914-332-0615

Please cancel Claims 7-10 without prejudiced and amend Claims 1 and 11 as shown in marked-up form as follows:

(Currently Amended) A tunable quadrature phase shifter, comprising:

> an input means for inputting an input signal; splitting means for splitting the input signal into two essentially orthogonal first and second signals; adding means for adding said first and second signals; subtracting means for subtracting said first and second signals;

- a first output for outputting a first output signal based on the output signal from said adding means; and a second output for outputting a second output signal based on the output signal from said subtracting means, wherein said splitting means is an all-pass having a time constant of C/g_m , where C is a capacitance in the subtracting means and gm is the transconductance of the subtracting means.
- (Previously Presented) The phase shifter of claim 1, further 2. comprising a first output buffer means for buffering said first
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output signal, and a second output buffer means for buffering said second output signal.

- (Previously Presented) The phase shifter of claim 1, further comprising a first transimpedance converter having its connected to said input means.
- (Previously Presented) The phase shifter of claim 1, further comprising a first transimpedance converter having its output connected to said first output, and a second transimpedance converter having its output connected to said second output.
- (Previously Presented) The phase shifter of claim 3, wherein the transimpedance converter is a transimpedance amplifier.
- (Previously Presented) The phase shifter of claim 2, wherein said first and second output buffer means are first and second transimpedance converters, respectively.

7-10 (Cancelled)

(Currently Amended) A data and clock recovery unit comprising 11. a phase detector which includes a phase shifter having

> an input means for inputting an input signal; splitting means for splitting the input signal into two essentially orthogonal first and second signals; adding means for adding said first and second signals; subtracting means for subtracting said first and second signals;

a first output for outputting a first output signal based on the output signal from said adding means; and

> a second output for outputting a second output signal based on the output signal from said subtracting means, wherein said splitting means is an all-pass having a time constant of C/g_m , where C is a capacitance in the subtracting means and g_m is the transconductance of the subtracting means.